

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: April 28, 2024

Version No.: 1.0

EFHZ24041792-CG-01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

• **1.1 Product identifier**

• **Trade name:**

DE ICER (non-nanoform)

• **Other means of identification:**

Article No.: DIY2408, DIY2408/OB, DIY4363/OB

Registration number: No available data.

UFI code: No available data.

• **1.2 Relevant identified uses of the substance or mixture and uses advised against on**

• **Application of the substance/ mixture:**

Consumer uses, for car cleaning.

• **Uses advised against:**

No available data.

• **Reason why uses advised against:**

No available data.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
<i>Flam. Aerosol 2, H223-H229</i>	<i>Expert judgement</i>
<i>STOT RE 2, H373</i>	<i>Cut-off values/concentration limits approach</i>

• **2.1.2 Additional information:**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• **2.2 Label elements**

• **Labeling according to Regulation (EC) No 1272/2008:**

The product is labelled according to CLP Regulation.

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Trade Name: DE ICER (non-nanoform)

Hazard pictograms:


GHS02 GHS08

Signal word:

Warning

Hazard-determining components of labelling:

Ethanediol

Hazard statements:

H223-H229 Flammable aerosol; Pressurised container: May burst if heated.

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local regulations.

Supplemental label elements:

Not applicable

2.3 Other hazards
None of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixtures
Description of the mixture:

DE ICER (non-nanoform).

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Water	7732-18-5	-	231-791-2	38.7	None	-
Ethyl alcohol	64-17-5	603-002-00-5	200-578-6	36	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2, H319: C $\geq 50\%$
Ethanediol	107-21-1	603-027-00-1	203-473-3	10	Acute Tox. 4, H302 STOT RE 2, H373	ATE (oral)= 500 mg/kg
Butane	106-97-8	601-004-00-0	203-448-7	10	Flam. Gas 1, H220	-

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					Press. Gas, H280	
Propane	74-98-6	601-003-00-5	200-827-9		Flam. Gas 1, H220 Press. Gas, H280	-
Dimethyl ether	115-10-6	603-019-00-8	204-065-8	4	Flam. Gas 1, H220 Press. Gas, H280	-
Sodium benzoate	532-32-1	-	208-534-8	0.2	Eye Irrit. 2, H319	-
Cocamidopropylamine oxide	68155-09-9	-	268-938-5	0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373	ATE (oral)= 500 mg/kg
Polyoxyethylene isodecyl ether	61827-42-7	-	-	0.05	Acute Tox. 4, H302 Eye Dam. 1, H318	ATE (oral)=500 mg/kg

Additional information:

Full text of H- and EUH-statements, see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General advice:

Get medical advice/attention if you feel unwell.

After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

Wash with plenty of soap and water.

If there are signs of irritation or other symptoms seek medical attention.

After eye contact:

Rinse cautiously with water.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are as indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment according to symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.
Unsuitable extinguishing media:

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Trade Name: DE ICER (non-nanoform)*Water with full jet.***· 5.2 Special hazards arising from the substance or mixture:***May cause explosive hazard if pierce or burn.***· 5.3 Advice for firefighters****Protective equipment:***Wear self-contained breathing apparatus for firefighting.***SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures****· 6.1.1 For non-emergency personnel****Protective equipment:***Protective gloves/protective clothing/eye protection/face protection/respiration protection.***Emergency procedures:***Evacuate immediately.**Ensure adequate ventilation.**Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).**Wear personal protective equipment.**Avoid breathing vapor.**Beware of accumulation of vapor in low areas or contained areas, where explosive concentrations may occur.**Avoid contact with eyes and skin.***· 6.1.2 For emergency responders****Personal protective equipment:***Protective gloves/protective clothing/eye protection/face protection/respiration protection.***· 6.2 Environmental precautions:***Prevent further leakage or spillage if safe to do so.**Prevent spillage from entering drains, sewer, basement or confined areas.**If the spillage contaminates rivers, lakes or drains inform respective authorities.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.***· 6.4 Reference to other sections:***See section 7 for information on safe handling.**See section 8 for information on personal protection equipment.**See section 13 for disposal information.***SECTION 7: Handling and storage****· 7.1 Precautions for safe handling:***Read carefully and follow all instructions.**Avoid all sources of ignition.**Do not spray on an open flame or other ignition source.*

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Trade Name: DE ICER (non-nanoform)

Do not pierce or burn, even after use.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing vapor.

Avoid contact with eyes and skin.

• **Information about fire and explosion protection:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:**

Protect from sunlight.

Do not expose to temperatures exceeding 50°C /122 °F.

• **Information about storage in one common storage facility:**

Keep away from flammable substance.

• **Further information about storage conditions:**

Store locked up.

• **Storage class:**

2B.

• **7.3 Specific end use(s):**

See section 1.2.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value – Short term
64-17-5 Ethyl alcohol		
Austria	1000ppm; 1900 mg/m ³	2000ppm; 3800 mg/m ³
Belgium	1000ppm; 1907 mg/m ³	-
Denmark	1000ppm; 1900 mg/m ³	2000ppm; 3800 mg/m ³
Finland	1000ppm; 1900 mg/m ³	1300ppm; 2500 mg/m ³ 15 minutes average value
France	1000ppm; 1900 mg/m ³	5000ppm; 9500 mg/m ³
Germany (AGS)	500ppm; 960 mg/m ³	1000ppm; 1920mg/m ³ 15 minutes average value
Germany (DFG)	500ppm; 960 mg/m ³	1000ppm; 1920mg/m ³ 15 minutes average value
Hungary	1900 mg/m ³	7600 mg/m ³
Ireland	-	1000ppm 15 minutes average value
Latvia	1000 mg/m ³	-
Poland	1900 mg/m ³	-
Spain	-	1000ppm; 1910 mg/m ³
Sweden	500ppm; 1000 mg/m ³	1000ppm; 1900mg/m ³ 15 minutes average value
The Netherlands	260 mg/m ³	1900 mg/m ³
United Kingdom	1000ppm; 1920 mg/m ³	-
107-21-1 Ethanediol		
European Union	20ppm; 52 mg/m ³	40ppm; 104 mg/m ³
Finland	20ppm; 50 mg/m ³	40ppm; 100 mg/m ³ 15 minutes average value

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Trade Name: DE ICER (non-nanoform)

Romania	20ppm; 52 mg/m ³	40ppm; 104 mg/m ³ 15 minutes average value
Sweden	10ppm; 25 mg/m ³	40ppm; 104 mg/m ³ 15 minutes average value
Turkey	20ppm; 52 mg/m ³	40ppm; 104 mg/m ³ 15 minutes average value
106-97-8 Butane		
Austria	800ppm; 1600 mg/m ³	1600ppm; 3800mg/m ³
Belgium	1000ppm; 1928 mg/m ³	-
Denmark	500ppm; 1200 mg/m ³	1000ppm; 2400mg/m ³
Finland	800ppm; 1900 mg/m ³	1000ppm; 2400mg/m ³
France	800ppm; 1900 mg/m ³	-
Germany (AGS)	1000ppm; 2400 mg/m ³	4000ppm; 9600mg/m ³ (15 minutes average value)
Germany (DFG)	1000ppm; 2400 mg/m ³	4000ppm; 9600mg/m ³ (15 minutes average value)
Hungary	2350 mg/m ³	-
Latvia	300 mg/m ³	-
Poland	1900 mg/m ³	3000 mg/m ³
Spain	800ppm; 1935 mg/m ³	-
United Kingdom	600ppm; 1450 mg/m ³	700ppm; 1810 mg/m ³

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
64-17-5 Ethyl alcohol			
Systemic effects	Long-term, inhalation exposure	380 mg/m ³	114 mg/m ³
	Long-term, dermal exposure	343 mg/kg bw/day	206 mg/kg bw/day
	Long-term, oral exposure	-	87 mg/kg bw/day
Local effects	Acute /short term, inhalation exposure	1 900 mg/m ³	950 mg/m ³
107-21-1 Ethanediol			
Systemic effects	Long-term, dermal exposure	106 mg/kg bw/day	53 mg/kg bw/day
Local effects	Long-term, inhalation exposure	35 mg/m ³	7 mg/m ³
115-10-6 Dimethyl ether			
Systemic effects	Long-term, inhalation exposure	1 894 mg/m ³	471 mg/m ³

• PNECs:

PNEC type	Value
64-17-5 Ethyl alcohol	
Freshwater	960 µg/L
Intermittent releases (freshwater)	2.75 mg/L
Marine water	790 µg/L
Sewage treatment plant (STP)	580 mg/L
Sediment (freshwater)	3.6 mg/kg sediment dw
Sediment (marine water)	2.9 mg/kg sediment dw
Soil	630 µg/kg soil dw
Secondary poisoning	380 - 720 mg/kg food
115-10-6 Dimethyl ether	
Freshwater	155 µg/L
Intermittent releases (freshwater)	1.549 mg/L

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Trade Name: DE ICER (non-nanoform)

Marine water	16 µg/L
Sewage treatment plant (STP)	160 mg/L
Sediment (freshwater)	681 µg/kg sediment dw
Sediment (marine water)	69 µg/kg sediment dw
Soil	45 µg/kg soil dw

Additional information:

The lists valid during the marking were used as basis.

8.2 Exposure controls

Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

Take off contaminated clothing and wash it before reuse.

See section 7 for information about design of technical facilities.

Personal protective equipment
Eye and face protection:

Not required under normal conditions of use.

For industrial applications, following protection required:


Safety glasses

Protective goggles with side-shields.

Skin protection
Hand protection:

Not required under normal conditions of use.

For industrial applications, following protection required:


Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

Other skin protection:

Not required under normal conditions of use.

For industrial applications, following protection required:


Face protection

Safety boots

Safety overalls

Face shield, gauntlets, boots, bodysuit are recommended.

Respiration protection:

Not required under normal conditions of use.

For industrial applications, following protection required:


Respiratory equipment

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Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• Thermal hazards:

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• Physical state	Aerosol
• Color	Transparent
• Odor & Odor threshold	Weak odor
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	78°C (Ethyl alcohol)
• Flammability	Flammable aerosol
• Lower and upper explosion limit	Not determined
• Flash point	Not determined
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not determined
• pH	Not determined
• Kinematic viscosity (mm ² /s)	Not determined
• Solubility	Not determined
• Partition coefficient n-octanol/water (log value)	Not applicable
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined
• Particle characteristics	Not determined

• 9.2 Other information
• 9.2.1 Information with regard to physical hazard classes:

• Explosives	Not applicable
• Flammable gases	Not applicable
• Aerosols	50% flammable ingredients
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable
• Flammable liquids	Not applicable
• Flammable solids	Not applicable
• Self-reactive substances and mixtures	Not applicable
• Pyrophoric liquids	Not applicable
• Pyrophoric solids	Not applicable
• Self-heating substances and mixtures	Not applicable

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Trade Name: DE ICER (non-nanoform)	
• Substances and mixtures, which emit flammable gases in contact with water	Not applicable
• Oxidizing liquids	Not applicable
• Oxidizing solids	Not applicable
• Organic peroxides	Not applicable
• Corrosive to metals	Not applicable
• Desensitised explosives	Not applicable
9.2.2 Other safety characteristics	
• Mechanical sensitivity	Not applicable
• Self-accelerating polymerisation temperature	Not applicable
• Formation of explosible dust/air mixtures	Not applicable
• Acid/alkaline reserve	Not applicable
• Evaporation rate	Not determined
• Miscibility	Not determined
• Conductivity	Not applicable
• Corrosiveness	Not applicable
• Gas group	Not applicable
• Redox potential	Not applicable
• Radical formation potential	Not applicable
• Photocatalytic properties	Not applicable
• Other physical and chemical parameters	Not determined

SECTION 10: Stability and reactivity

• **10.1 Reactivity:**

The product is non-reactive under normal conditions of use, storage and transport.

• **10.2 Chemical stability:**

Under storage at normal ambient temperatures, the product is stable.

• **10.3 Possibility of hazardous reactions:**

No known hazardous reaction.

• **10.4 Conditions to avoid:**

Direct sunlight, heat, hot surfaces, sparks, open flames and other ignition sources.

• **10.5 Incompatible materials:**

Strong oxidizing agent and acids.

• **10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

• **11.1 Information on toxicological effects**

• **Acute toxicity:**

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Trade Name: DE ICER (non-nanoform)

Based on available data, the classification criteria are not met.

Species	Effective Dose	Results	Method/Source
<i>64-17-5 Ethyl alcohol</i>			
Rat	LD50-oral	7060 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
Mouse	LD50-oral	3450 mg/kg	Gigiena i Sanitariya. For English translation, see HYSAAV., 32(3)(31), 1967.
Mouse	LC50-inhalation	39 gm/m ³ /4H	Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases., 26(8)(53), 1982.
Guinea pig	LD50-oral	5560 mg/kg	Journal of Industrial Hygiene and Toxicology., 23(259), 1941.
Rabbit	LD50-dermal	17100 mg/kg	ECHA registered dossier.
<i>107-21-1 Ethanediol</i>			
Rat	LD50-oral	4700 mg/kg	Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 26(6), Pg. 28, 1982.
Rabbit	LD50-dermal	10600 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
Mouse	LD50-oral	5500 mg/kg	Gigiena i Sanitariya. For English translation, see HYSAAV., 32(3)(31), 1967.
Dog	LD50-oral	5500 mg/kg	Recueil de Medecine Veterinaire., 154(137), 1978.
Cat	LD50-oral	1650 mg/kg	Recueil de Medecine Veterinaire., 154(137), 1978.
Guinea pig	LD50-oral	6610 mg/kg	Journal of Industrial Hygiene and Toxicology., 23(259), 1941.

• Skin corrosion/irritation:
Based on available data, the classification criteria are not met.
• Serious eyes damage/ irritation:
Based on available data, the classification criteria are not met.
• Respiratory or skin sensitization:
Based on available data, the classification criteria are not met.
• Germ cell mutagenicity:
Based on available data, the classification criteria are not met.
• Carcinogenicity:
Based on available data, the classification criteria are not met.
• Reproductive toxicity:
Based on available data, the classification criteria are not met.
• STOT-single exposure:
Based on available data, the classification criteria are not met.
• STOT-repeated exposure:
May cause damage to organs through prolonged or repeated exposure.
• Aspiration hazard:

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Trade Name: DE ICER (non-nanoform)

Based on available data, the classification criteria are not met.

• **11.2 Information on other hazards**

• **11.2.1 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:**

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

• **12.1 Toxicity:**

Species	Effect dose	Test duration	Value
<i>64-17-5 Ethyl alcohol</i>			
Rainbow trout	LC50	24h	11200 mg/L
Daphnia magna	LC50	48h	5012 mg/L
Daphnia magna	EC50	24h	18400 mg/L
Daphnia Magna	NOEC	21d	>10 mg/L
Chlorella vulgaris	EC50	72h	275 mg/L
Selenastrum capricornutum	EC50	72h	12900 mg/L
Chlamydomonas eugametos	EC50	48h	18000 mg/L
Chlamydomonas eugametos	NOEC	48h	7900 mg/L
Ulva pertusa	EC50	96h	14900 mg/L
Ulva pertusa	NOEC	96h	3900 mg/L
Tetrahymena pyriformis	EC50	48h	11963 mg/L
<i>107-21-1 Ethanediol</i>			
Pimephales promelas	LC50	96h	>72860 mg/L
Daphnia magna	EC50	48h	>100 mg/L
Daphnia magna	LC50	48h	22108 mg/L
Ceriodaphnia dubia	NOEC	7d	8590 mg/L

• **12.2 Persistence and degradability:**

CAS	Substance	Biodegradation	Hydrolysis
64-17-5	Ethyl alcohol	75%(20d)	DT50=1-36yr
107-21-1	Ethanediol	83 -96%(14d)	-

• **12.3 Bio-accumulative potential:**

CAS	Substance	Log Pow	BCF
64-17-5	Ethyl alcohol	-0.35	1
107-21-1	Ethanediol	-1.36	-

• **12.4 Mobility in soil:**

CAS	Substance	Surface tension (mN/m)	Log Koc
64-17-5	Ethyl alcohol	56.4	0

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12.5 Results of PBT and vPvB assessment:

 This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties:

 None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects:

No known other adverse effects.

12.8 Additional ecological information
General notes:

WGK1 (German Regulation) (self-assessment): slightly hazardous to water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

13.1 Waste treatment methods
Recommendation:

Must not be disposed together with household garbage.

13.2 Un-cleaned packaging
Recommendation:

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

14.1 UN-Number

ADR/ADN/RID (2023 Edition)	UN1950
IMO/IMDG (41-22)	UN1950
IATA-DGR (65th)	UN1950

14.2 UN proper shipping name

ADR/ADN/RID (2023 Edition)	AEROSOLS, flammable
IMO/IMDG (41-22)	AEROSOLS, flammable
IATA-DGR (65th)	AEROSOLS, flammable

14.3 Transport hazard class (es)

ADR/ADN/RID (2023 Edition)	
Class	2.1
Label	2.1 Flamm. gas
IMO/IMDG (41-22)	
Class	2.1


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Trade Name: DE ICER (non-nanoform)	
Label	2.1 Flamm. gas
IATA-DGR (65th)	
Class	2.1
Label	2.1 Flamm. gas
• 14.4 Packing group	
ADR/RID (2023Edition)	Void
IMO/IMDG (41-22)	Void
IATA-DGR (65th)	Void
• 14.5 Marine pollution	
Marine Pollutants (Yes/No)	No
Special mark	-
• 14.6 Special precautions for user	Warning: AEROSOLS, flammable
• Danger code (Kemler)	23
• EMS number	F-D, S-U
• 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Void
Additional information	
Land transport (ADR/RID)	
Limited quantity	IL
Special provisions	190, 327, 344, 625
Inland waterway transport (ADN)	
Limited quantity	IL
Special provisions	190, 327, 344, 625
Sea transport (IMO-IMDG)	
Limited quantity	1000 ml
Special provisions	63, 190, 277, 327, 344, 381, 959
Air transport (IATA-DGR)	
Limited quantity	Passenger and Cargo Aircraft: 75kg Cargo Aircraft Only: 150kg
Special provisions	A145, A167, A802

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

• MAK (German Maximum Workplace Concentration):

64-17-5	Ethyl alcohol	5
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• Directive 2012/18/EU

• Named dangerous substances-ANNEX I:

None of the ingredients is listed.

• Seveso category:

P3a FLAMMABLE AEROSOLS

• Qualifying quantity (tonnes) for the application of lower-tier requirements:

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Trade Name: DE ICER (non-nanoform)

150 ton(net)

• Qualifying quantity (tonnes) for the application of upper-tier requirements:

500 ton(net)

• National regulations.**• Water hazard class:**

WGK1 (German Regulation) (self-assessment): slightly hazardous to water.

• Other regulations, limitations and prohibitive regulations**• SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

None of the ingredients is listed.

• REACH Regulation Annex XVII Restriction:

None of the ingredients is listed.

• REACH Regulation Annex XIV Authorization List:

None of the ingredients is listed.

• 15.2 Chemical safety assessment:

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• 16.1 Indication of changes:

None.

• 16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Flam. Gas 1: Flammable gases

Flam. Liq. 2: Flammable liquid, hazard category 2

Press. Gas: Gases under pressure

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit. 2: Skin corrosion/irritation, hazard category 2

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

STOT RE 2: Specific target organ toxicity after repeated exposure, hazard category 2

Safety Data Sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: April 28, 2024

Version No.: 1.0

EFHZ24041792-CG-01

Trade Name: DE ICER (non-nanoform)**• 16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:

See section 2.1 (classification).

• 16.5 Relevant H- and EUH-phrases (number and full text):

H220 Extremely flammable gas

H225 Highly flammable liquid and vapour

H280 Contains gas under pressure; may explode if heated

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure

• 16.6 Training advice:

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• 16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of safety data sheet

Eurofins (Hangzhou) contact information

Customer service: Zoey.Huang@cpt.eurofinscn.com/ +86 571 87203730

Sales specialist: Coco.Wang@cpt.eurofinscn.com/ +86 15990276205

The test item is subcontracted to other lab.